Pullulanase 1, chloroplastic (PU1), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP00490*

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana Pullulanase 1, chloroplastic (PU1) , partial

Product Gene Name
PU1 recombinant protein

Product Synonym Gene Name
PU1

Purity
Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Format
Lyophilized or liquid (Format to be determined during the manufacturing process)

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
107,067 Da

Storage
Store at -20℃. For long-term storage, store at -20℃ or -80℃. Store working aliquots at 4℃ for up to one week. Repeated freezing and thawing is not recommended.

Protein Family
Pullulanase

NCBI Accession
NP_001330089.1

NCBI GI
1063729884

NCBI GenBank Nucleotide
NM_001342767.1

NCBI GeneID
830315

NCBI Official Full Name
limit dextrinase

NCBI Official Symbol
LDA

NCBI Official Synonym Symbols

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967
Tel: 1-631-637-0420
E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/

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ATLDA; ATPU1; limit dextrinase; LIMIT DEXTRINASE; PU1; PULLULANASE; PULLULANASE 1; T19N18.90; T19N18_90

NCBI Protein Information

limit dextrinase

NCBI Summary

Encodes an enzyme thought to be involved in the hydrolysis of the alpha-1,6 linkages during starch degradation in seed endosperm. However, a knockout mutant of Arabidopsis lacking limit dextrinase has normal rates of starch degradation in the leaf at night, indicating that more than one isoamylases might be involved in this process.

UniProt Gene Name

PU1

UniProt Synonym Gene Names

LDA; AtPU1; AtLDA

UniProt Protein Name

Pullulanase 1, chloroplastic

UniProt Synonym Protein Names

Protein LIMIT DEXTRINASE; AtLDA

UniProt Primary Accession

Q8GTR4

UniProt Related Accession

Q8GTR4

UniProt Comments

Involved in starch degradation and also probably in the trimming of pre-amylopectin chains during starch synthesis.

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